

LISTING OF CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently Amended) Air guiding flap of an aircraft wherein one surface (28) thereof faces an air duct and is exposed to a prevailing pressure in the air duct and ~~whose~~ an opposite surface (30) thereof is exposed to the pressure of the relative wind flowing past the aircraft, ~~which the~~ the air guiding flap ~~comprises~~ comprising:

an actuator (34) for automatically opening and closing the air guiding flap; and ~~which actuator (34) cooperates with a device for controlling the position of the air guiding flap;~~
~~characterised in that~~

a force detecting device (36) ~~is provided~~ which force detecting device (36) detects the force impinging on the actuator (34) based on a difference between the prevailing pressure in the air duct and the pressure of the relative wind flowing past the aircraft, ~~and that~~

wherein the controlling device actuator (34) is adapted to adjust adjusts the position of the air guiding flap such that the force impinging on the actuator (34) is at least essentially zero.

2. (Currently Amended) Air guiding flap according to Claim 1

~~characterized in that~~ wherein the air guiding flap is a ram air escape flap (26), and that the pressure in the air duct is a dynamic pressure, and ~~that~~ the ram air escape flap (26) is forcibly closed in the event that the pressure force impinging thereon of the relative wind flowing past the aircraft is greater than the pressure force impinging thereon of the dynamic pressure in the air duct until at least an approaching equilibrium of the said pressure forces ensues.

3. (Currently Amended) Air guiding flap according to Claim 1

~~characterized in that~~ wherein the air guiding flap is a ram air escape flap (26), and the pressure in the air duct is a dynamic pressure, and ~~that~~ the ram air escape flap (26) is forcibly opened in the event that the pressure force impinging thereon of the relative wind flowing past the aircraft is less than the pressure force impinging thereon of the dynamic pressure in the air duct until at least an approaching equilibrium of the said pressure forces ensues.

4. (Currently Amended) Ram air system for supplying ram air to an auxiliary assembly of an aircraft, comprising a ram air duct (16) having an intake opening and an escape opening and from which ram air duct the required ram air for the auxiliary assembly is taken and further comprising a ram air intake flap (24) controlling the flow cross section of the intake opening and a ram air escape flap controlling the flow cross section of the escape opening ~~characterised in that~~ wherein

- the quantity of required ram air for the auxiliary assembly is controlled by opening or closing the ram air intake flap (24) and that

- the ram air escape flap (26) is an air guiding flap according to Claim 2.

5. (Currently Amended) Ram air system according to Claim 4,

~~characterized in that~~ wherein the auxiliary assembly is a fresh air generating device of an aircraft.

6. (Currently Amended) Ram air system according to Claim 5

~~characterised in that~~ wherein the control parameter for the position of the ram air intake flap (24) is the temperature at the output of a compressor of the fresh air generating device.

7. (Currently Amended) Ram air system according to Claim 6

~~characterised in that~~ wherein the ram air intake flap (24) is forcibly opened in the event that the compressor output temperature exceeds a predetermined temperature value.

8. (Currently Amended) Ram air system according to Claim 6 or 7

~~characterised in that~~ wherein the ram air intake flap (24) is forcibly closed in the event that the compressor output temperature falls short of a predetermined temperature value.

9. (Currently Amended) Process for controlling the position of an air guiding flap of an aircraft, comprising an inner side and an outer side, ~~characterised in that~~ wherein the position of the air guiding flap in flight is controlled such that the aerodynamic flow forces impinging on the inner side and the outer side of the air guiding flap are at least approaching equilibrium.